LEICA M10 MONOCHROM

Technical Data.



Camera	Leica M10 MONOCHROM
Type no.	6376
Order no.	20050
Camera type	Compact digital view and rangefinder system camera with a dedicated black-and-white image sensor.
Lens attachment	Leica M bayonet with additional sensor for 6-bit coding
Lens system	Leica M lenses, Leica R lenses with an optional adapter (available accessory)
Sensor	B/W CMOS chip, active area approx. 24x36 mm, without color and low-pass filter
Resolution	DNG™: 7864 x 5200 pixels (40,89 MP), JPEG: 7840 x 5184 pixels (40,64 MP), 5472 x 3648 pixels (20 MP), 2976 x 1984 pixels (6MP)
Data formats	DNG™ (raw data, compressed loss-free), JPEG
File size	DNG™: 40-60 MB, JPEG (40MP)10-20 MB: Depending on resolution and picture content
Buffer memory	2GB / 10 pictures in series
White balance	Automatic, manual, 8 presets, colour temperature input
Storage media	SD cards up to 2GB/SDHC cards up to 32GB/SDXC cards up to 2TB
Menu languages	German, English, French, Spanish, Italian, Portuguese, Japanese, Traditional Chinese, Simplified Chinese, Russian, Korean
Exposure metering	Exposure metering through the lens (TTL), with working aperture
Metering method	Light reflected by the blades of the 1 shutter curtain onto measuring cell.
Metering range	At room temperature and normal humidity for ISO 200, at aperture 1.0 EV-2 to EV19 at aperture 32. Flashing of the left triangular LED in the viewfinder indicates values below the metering range
Sensitivity range	ISO 160 to ISO 100.000, adjustable in 1/3 ISO increments from ISO 160, choice of automatic control or manual setting
Exposure modes	Choice of automatic shutter speed control with manual aperture preselection - aperture priority **A**, or manual shutter speed and aperture setting

Flash exposure control	
Flash unit attachment	Via accessory shoe with central and control contacts
Synchronisation	Optionally triggered at the 1st or 2nd shutter curtain
Flash sync time	⚡ = 1/180 s; slower shutter speeds can be used, if working below sync speed: Automatic changeover to TTL linear flash mode with HSS-compatible Leica system flash units
Flash exposure metering	Using centre-weighted TTL pre-flash metering with Leica flash units (SF40, SF64, SF26), or flash units compatible with the system with SCA3502 M5 adapter
Flash measurement cell	2 silicon photo diodes with collection lens on the camera base
Flash exposure compensation	±3EV in 1/3EV increments
Displays in flash mode (in viewfinder only)	Using flash symbol LED

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Viewfinder	
Construction principle	Large, bright line frame viewfinder with automatic parallax compensation
Eye piece	Calibrated to -0.5 dpt.; corrective lenses from -3 to +3 diopter available
Image field limiter	By activating two bright lines each: For 35 and 135mm, or for 28 and 90mm, or for 50 and 75mm; automatic switching when lens is attached.
Parallax compensation	The horizontal and vertical difference between the viewfinder and the lens is automatically compensated according to the relevant distance setting, i.e. the viewfinder bright-line automatically aligns with the subject detail recorded by the lens.
Matching viewfinder and actual image	At a range setting of 2m, the bright-line frame size corresponds exactly to the sensor size of approx. 23.9 x 35.8mm; at infinity setting, depending on the focal length, approx. 7.3% (28mm) to 18% (135mm) more is recorded by the sensor than indicated by the corresponding bright line frame and slightly less for shorter distance settings than 2m
Magnification	(For all lenses) 0.73 x
Long-base rangefinder	Split or superimposed image range finder shown as a bright field in the centre of the viewfinder image
Effective metering base	50.6mm (mechanical measurement basis 69.31mm x viewfinder magnification 0.73x)
Displays	
In the viewfinder	Four-digit digital display with exposure alerts above and below
On back	3" colour TFT LCD monitor with 16 million colours and 1,036,800 pixels, approx. 100 % image field, glass cover of extremely hard, scratch-resistant Gorilla® glass, colour space: sRGB, for Live-View and review mode, displays
Shutter and shutter release	
Shutter	Metal blade focal plane shutter with vertical movement
Shutter speeds	For aperture priority: (**A**) continuous from 16min to 1⁄4000s., for manual adjustment: 8s to 1⁄4000s in half steps, from 8s to 16min in half steps, **B**: For long exposures up to maximum 16min (in conjunction with self-timer T function, i.e. 1st release = shutter opens, 2nd release = shutter closes), (1⁄180s): Fastest shutter speed for flash synchronization, HSS linear flash mode possible with all shutter speeds faster than 1⁄180s (with HSS-compatible Leica system flash units)
Picture series	Approx. 4.5 pictures/s
Shutter release button	Two-stage, 1st step: Activation of the camera electronics including exposure metering and exposure lock (in aperture priority mode), 2nd step: Shutter release; standard thread for cable release integrated.
Self-timer	Delay optionally 2s (aperture priority and manual exposure setting) or 12s, set in menu, indicated by flashing LED on front of camera and corresponding display in monitor.
Turning the camera on/off	Using main switch on top of camera; optional automatic shutdown of camera electronics after approx. 2/5/10 minutes; reactivated by tapping the shutter release
Power supply	1 Lithium-ion rechargeable battery, nominal voltage 7.4V, capacity 1100mAh.; maximum charging current/voltage: DC 1000mA, 7.4V; Model No.: BP-SCL5; Manufacturer: PT. VARTA Microbattery, Made in Indonesia, Operating conditions (in camera): 0°C - + 40°C
Charger	Inputs: 100-240V AC, 50/60Hz, 300mA, automatic switching, or 12V DC, 1.3A; Output: DC 7.4V, 1000mA/max. 8.25V, 1100mA; Model No.: BC-SCL5; Manufacturer: Guangdong PISEN Electronics Co., Ltd., Made in China, Operating conditions: 0°C - + 35°C
GPS (only with Leica Visoflex viewfinder attached, available as an accessory)	Optional (not available everywhere due to country-specific legislation, i.e. enforced automatic shutdown in those countries), data are written to EXIF header in picture files.
Wi-Fi	Complies with IEEE 802.11b/g/n standard (standard Wifi protocol), channel 1-11, encryption method: Wifi-compatible WPA™/WPA2™ encryption, access method: Infrastructure mode
Camera body	
Material	All-metal die cast magnesium body, synthetic leather covering. Brass top panel and base, black chrome plated finish
Image field selector	Allows the bright-line pairs to be manually activated at any time (e.g. to compare detail)
Tripod thread	A ¼ (¼") DIN stainless steel in bottom
Operating conditions	0–40 °C
Interfaces	ISO accessory shoe with additional contacts for Leica Visoflex viewfinder (available as an accessory)
Dimensions	(width x depth x height) approx. 139 x 38.5 x 80mm
Weight	approx. 660g (with battery)
Scope of Delivery	Charger 100-240V with 2 mains cables (Euro, USA, varies in some export markets) and 1 car charging cable, lithium ion battery, carrying strap, body bayonet cover, cover for accessory shoe

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